----- INTENDED

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES	DIAGNOSTIC EMD
	ENGINE FAR	ENGINE FAMILY			PROCEDURE	CLASS 2	TWC, SFI, 2HO2S	
2009 9FMXE06.8BS		BS2	6.8	Gasoline	Otto	HDO	1440, 011, 211020	
PRIMARY	PENGINE'S IDLE			A	DITIONAL IDLE EN	IISSIONS CON	TROL 5	
Limboro	N/A				N	/A		
ENGINE (ENGINE MO	DELS / CODES (ra	ted power, in l	np)	
6.8	(-/		-450/550 Chass	is Cab: 9F718N0500.	9F718L0500, 9F	728U0500,	9F728N0500 (362 for all codes)	
0.6		<u></u>	4007000 077000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+			
L=liter; hp 1 CNG/L 2 L/M/H 3 ECS=e up catalysi TBI=throttle	n=horsepower; kw=' .NG=compressed/liq HDD=light/medium/lip emission control system t; DPF=diesel particle body fuel injection	kilowatt; huefied natu neavy hear em; TWC ulate filter; ; SFI/MFI:	rr=hour; ural gas; LPG=liquefit vy-duty diesel; UB=ur /OC=three-way/oxidizi; PTOX=periodic trap =sequential/multi port EGR / EGR-C=exhaus	ad petroleum gas; E85=85% ban bus; HDO=heavy duty C ng catalyst; NAC=NOx adso oxidizer; HO2S/O25=heated	ethanol fuel; MF=mul Otto; rption catalyst; SCR-I/oxygensensor; HAF	ti fuel a.k.a. BF: J / SCR-N=select S/AFS=heated/8	86.abc=Title 40, Code of Federal Regulati bi fuel; DF=dual fuel; FF=flexible fuel; tive catalylic reduction – urea / ammonia; iir-fuel-ratio sensor (a.k.a., universal or linea buretor; IDI/DDI=indirect/direct diesel injection; SPL=smoke puff limiter; ECM/PC	WU (prefix) =warm- ir oxygen sensor); an: TC/SC=turbo/

ESS-engine shuldown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS = internal combustion auxiliary power system; ALT=alternative method per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles); EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8;

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1930.0, 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		СО		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	*	*	*	*	*	*	14.4	*	0.01	*	0.01	*
FEL	0.21	<u> </u>	0.35	*	*	*	*	*	*	*	*	*
CERT	0.06	*	0.07	*	*	*	6.2	*	*	*	0.000	*
NTE	*		+		*		*		*		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

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Annette Hebert, Chief Mobile Source Operations Division